

## REPLY TO DR. DYAR'S NOTE.

BY A. RADCLIFFE GROTE.

In reply to Dr. Dyar's note, this Journal, V, 66, I would state that, having no preparations of the larvæ, I may have failed to follow entirely Dr. Dyar's remarks and any misstatement of them has arisen in this way. I would suggest that Dr. Dyar figure them in outline as I have done with the neururation. I consider the "stinging spines" as adaptive, secondary characters, unfit for classificatory purposes of this nature and not decisive of phylogeny. With regard to the anal tubercle, Dr. Dyar regards it as primary—of this I cannot judge, but naturally accept this dicta. And this is the only main point. I regard the pattern of neururation as "primary" and that it unites, in one phylogenetic group, *Hemileuca* and *Saturnia* and *Automeris* and *Aglia*. As to other characters, the structure of the female antennæ appears to fall in very well with my classification as also the specializations of the pupal envelop. This whole case seems to converge into: anal tubercles *vs.* pattern of neururation. It is a test case and should be settled before we go any further. It appears to me a physiological impossibility that *Aglia* should be derived from the Saturnian branch or that *Hemileuca* should be derived from the Aglian stem. From his point of view Dr. Dyar thinks the reverse and hence a settlement of the controversy, which should not be suffered to run into side issues, is very desirable.

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surmise as to the identity of *Z. canadensis*, H. S. with *Z. asylas* of Cramer met with their approval. I have just received the following reply contained in a letter written January 1st, 1898.

"As desired, we have looked into the identity of *Zeuzera asylas* Cram. and *Z. canadensis* H. Sch., and have come to the conclusion that you are quite correct in the belief that both figures represent the same African species. We have nothing approaching it from any temperate country and all the species of this type appear to be inhabitants of the tropical parts of the old world."

I accept it then as established that *Zeuzera canadensis* H. Sch. is a synonym for *Z. asylas* Cram., and the species should be stricken from our lists of North American species. Herrich-Schaefer's locality "*Quebeck*" was evidently an error.